

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number
WO 03/087832 A2

(51) International Patent Classification⁷: **G01N 33/574**

(21) International Application Number: **PCT/GB03/01587**

(22) International Filing Date: **10 April 2003 (10.04.2003)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
0208331.9 11 April 2002 (11.04.2002) GB
0221538.2 17 September 2002 (17.09.2002) GB

(71) Applicant (*for all designated States except US*): **OXFORD GLYCOSCIENCES (UK) LTD [GB/GB]**; The Forum, 86 Milton Park, Abingdon, Oxfordshire OX14 4RY (GB).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **TERRETT, Jonathan, Alexander [GB/GB]**; Oxford GlycoSciences (UK) Ltd, The Forum, 86 Milton Park, Abingdon, Oxfordshire OX14 4RY (GB).

(74) Agent: **BLAKEY, Alison, Jane; Oxford GlycoSciences (UK) Ltd, The Forum, 86 Milton Park, Abingdon, Oxfordshire OX14 4RY (GB).**

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **A PROTEIN INVOLVED IN CARCINOMA**

1 MATTVPDGCR NGLKSKYYRL CDKAEAWGIV LETVATAGVV TSVAFMLTLP ILVCKVQDSN
61 RRKMLPTQFL FLLGVLGIFG LTFAFIIGLD GSTGPTRFFL FGILFSICFS CLLAHAVSLT
121 KLVGRKRPLS LLVILGLAVG FSLVQDVIAI EYIVLTMNRT **NVNVFSELSA PRRNEDFVLL**
181 LTYVLFLMAL TFLMSSFTFC GSFTGWKRHG AHYLTMLLS IAIWVAWITL LMLPDFDRRW
241 DDTILSSALA ANGWVFLLAY VSPEFWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY
301 SQEEITQGFE ETGDTLYAPY STHFQLQNQP PQKEFSIPRA **HAWPSPYKDY** EVKKEGS

(57) Abstract: The present invention relates to the new uses of a polypeptide (retinoic acid-inducible gene 1; RAIG1, also known as hypothetical protein FLJ10899 or retinoic acid induced 3) compositions comprising the polypeptide, including vaccines, antibodies that are immunospecific for the polypeptide and agents which interact with or modulate the expression or activity of the polypeptide or the expression of the nucleic acid which encodes the polypeptide. The use of the polypeptide in the diagnosis, screening and treatment of carcinoma, e.g. breast cancer, pancreatic cancer, lung cancer, liver cancer, ovarian cancer, colon cancer and/or osteosarcoma, is also provided.

WO 03/087832 A2